

ALARM DEVICE AND SYSTEM FOR OBSTRUCTIVE ELECTRIC WAVE

(2)

Publication number: JP11033125 (A)**Publication date:** 1999-02-09**Inventor(s):** YOKOTA YUICHI**Applicant(s):** OKI ELECTRIC IND CO LTD**Classification:**

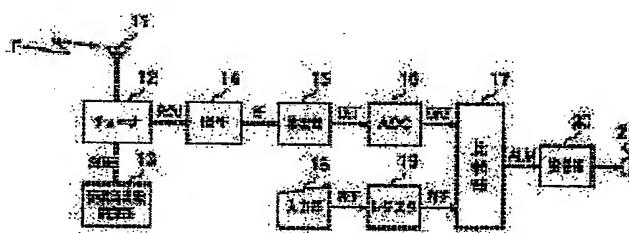
- international: G01R29/08; A61N1/08; H04B1/04; H04B1/40; H04B7/26; H04B17/00; G01R29/08;
A61N1/08; H04B1/04; H04B1/40; H04B7/26; H04B17/00; (IPC1-7): A61N1/08;
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- European:

Application number: JP19970194292 19970718**Priority number(s):** JP19970194292 19970718

Abstract of JP 11033125 (A)

PROBLEM TO BE SOLVED: To provide a portable alarm device for obstructive electric waves which detects obstructive electric waves causing wrong operation of a heart pacemaker, etc., and a system controlling generation of electric waves from sources such as a cellular phone, etc., near a medical equipment user. **SOLUTION:** Electric waves F inputted to a tuner 12 by way of an antenna 11 are selected one by one with scanning signals SCN from a received frequency control part 13, and received signals RCV are produced and outputted to the BPF 14. The intermediate frequency signals 1F passing through the BPF 14 are inputted to an wave detecting part 15, and detection signals DET are produced in proportion to the amplitude. The detection signals DET are converted to digital measuring data DAT at ADC 16, and are compared with standard values REF saved at a register 19 at a comparing part 17.; If the measuring data DAT exceed the standard values REF, an alarm signal ALM is outputted and alarm sound is outputted through an alarm part 20 and a speaker 21.



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HIT: 1 OF 1, Selected: 0 OF 0

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Title Derwent

Failure electromagnetic wave admonition apparatus for medical apparatus - compares measurement data with reference value stored in register, and outputs admonition sound, based on comparison result

Abstract Derwent**Unstructured:**

NOVELTY - A comparator (17) compares the measurement data (DAT) output by an analog to digital converter (16), with the reference value (REF) which is set up by an input unit (18) stored in a register (19). Admonition sound is output by an alarm (20) and a speaker (21), when the measurement data exceeds the reference value. DETAILED DESCRIPTION - Electromagnetic wave of predetermined frequency is received using an antenna (11), based on the scanning signal (SCN) of a frequency controller (13). The input signal is converted to RCV signal and is output to a band pass filter (14), which outputs intermediate frequency signal to a detector (15). The detector converts the IF signal into a detection signal (DET) that is fed to the analog to digital converter which converts the detection signal into digital measurement data. For medical apparatus e.g. heart pacemaker. Reduces influence of wireless transmitting and receiving apparatus such as portable telephone on medical apparatus. The stoppage of failure EM wave can be reliably carried out. DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of failure EM wave admonition apparatus. (11) Antenna; (13) Frequency controller; (14) Band pass filter; (15) Detector; (16) Analog to digital converter; (17) Comparator; (18) Input unit; (19) Register; (20) Alarm; (21) Speaker.

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Patent Family Information

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Derwent Class

P34 S01 S05 W02

Manual Code

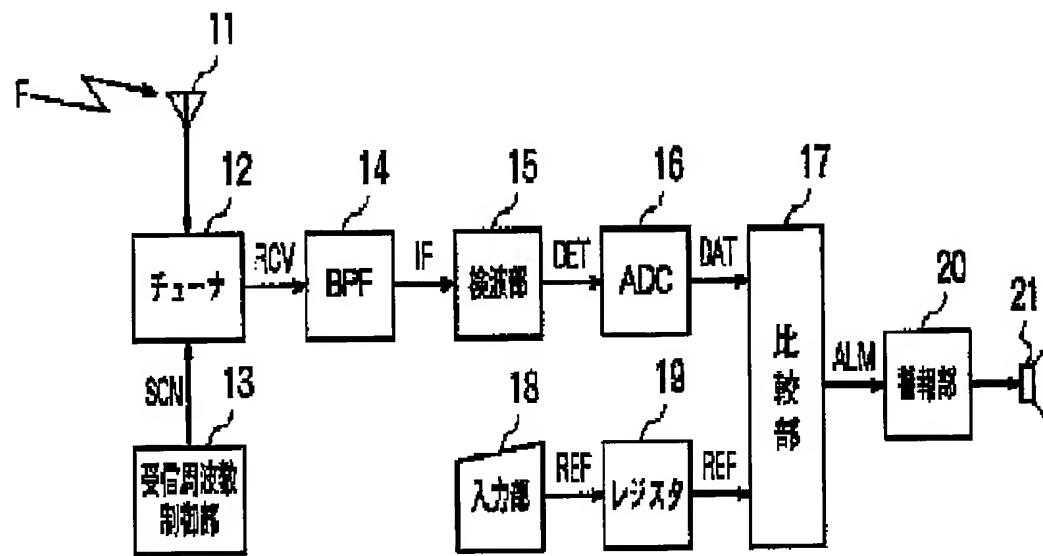
S01-D07B	S05-A01A5A	W02-C03C
W02-C05	W02-G01	W02-G02

International Patent Classification (IPC)

IPC Symbol	IPC Rev.	Class Level	IPC Scope
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A61N-1/08	2006-01-01	I	C
G01R-29/08	2006-01-01	I	C
H04B-1/04	2006-01-01	I	C
H04B-1/40	2006-01-01	I	C
H04B-17/00	2006-01-01	I	C
H04B-7/26	2006-01-01	I	C
A61N-1/08	2006-01-01	I	A
G01R-29/08	2006-01-01	I	A
H04B-1/04	2006-01-01	I	A
H04B-1/40	2006-01-01	I	A
H04B-17/00	2006-01-01	I	A
H04B-7/26	2006-01-01	I	A

Drawing



本発明の第1の実施形態の障害電波警告装置